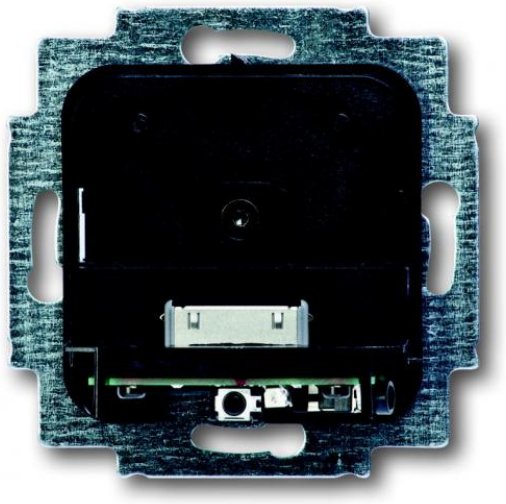
1473-1-8319 | Rev. 01 | 17.12.2012

Operating Instructions
Busch-AudioWorld®

Busch-iDock 8218 U-500
Busch-AudioWorld®



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1 Safety ... 3
2 Intended use ... 3
2.1 Environment ... 3
3 User Manual ... 3
4 Operation ... 4
4.1 Control elements ... 4
4.2 Apple devices ... 4
4.3 Conventional devices ... 4
4.4 Connecting device ... 4
5 Technical data ... 5
6 Setup and function ... 6
6.1 Features of function and equipment ... 6
6.2 Possible combinations ... 6
7 Installation and electrical connection ... 7
7.1 Requirements for the electrician ... 7
7.2 General installation instructions ... 7
7.3 Mounting ... 8
7.4 Electrical connection ... 9
7.4.1 Installation / connection possibilities ... 10

1 Safety

Warning

Electric voltage!
Risk of death and fire due to electrical voltage of 230 V.
– Work on the 230V supply system may only be performed by authorised electricians!
– Disconnect the mains power supply prior to installation and/or disassembly!

2 Intended use

The device is part of the Busch-AudioWorld® system and is to be used exclusively with the components that are supplied and licensed as described in the "Structure and Function" chapter. The device must only be installed in dry indoor rooms.

2.1 Environment

Consider the protection of the environment!
Used electric and electronic devices must not be disposed of with domestic waste.
– The device contains valuable raw materials which can be recycled. Therefore, dispose of the device at the appropriate collecting depot.

All packaging materials and devices bear the markings and test seals for proper disposal. Always dispose of the packaging material and electric devices and their components via the authorized collecting depots and disposal companies.
The products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.
(EU Directive 2002/96/EC WEEE and 2002/95/EC RoHS)
(EU REACH ordinance and law for the implementation of the ordinance (EC) No.1907/2006)

3 User Manual

Detailed information for planning Busch-AudioWorld® systems is contained in the user manual. Download at www.Busch-Jaeger.com.

4 Operation

4.1 Control elements

Operation takes place either using the MP3 player or directly using digital radio 8215 U or 8216 U.
For the playback of the audio signal, it is plugged into the AUX input in the case of Busch-AudioWorld® devices.
See the operating instructions of the respective devices.

4.2 Apple devices

Control/operate the iPOD / iPhone devices exclusively via the APPLE REMOTE control unit.
The device is plugged vertically into the charging cradle.

Notes
Limitation of functions is possible depending on the iPod / iPhone generations.
Regarding the instructions to be observed in connection with the Apple devices we refer to the separately enclosed notice.

4.3 Conventional devices

The playback of other audio sources is only possible with the connection of a separate cable with a 3.5 mm jack plug (line out) to the lateral socket (line in). Operation takes place on the connected device, depending on the manufacturer.

4.4 Connecting device

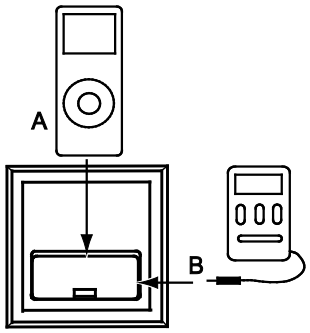

Fig. 1: Options for connecting devices

Connections

No.	Function
A	iDock station for iPod / iPhone
B	Jack socket for a different player

5 Technical data

Designation	Value
Mains voltage	230 V AC, ±10%, 50 / 60 Hz
Line in input (stereo jack)	3.5 mm
Input impedance	> 10 KΩ
Input level	≤ 1 V eff
Output voltage of audio bus	3 V_{ss}
Protection type	IP 20

6 Setup and function

6.1 Features of function and equipment

The Busch-iDock is a playing / storage and battery-charging unit for iPod / iPhone devices.
When the Apple device is plugged in and active, the 3.5 mm jack socket is inactive.
The Busch flush-mounted digital radio 8215 U from software version 2.0 can also be control/remote-controlled via 8218 U.

6.2 Possible combinations

	 8218 U ...
 8208 ...	X
 8215 U ...	X
 8254-2X ...	X
 8254-21X ...	X
 8254-8X ...	X

7 Installation and electrical connection

Warning

Electric voltage!
Risk of death due to electrical voltage of 230 V during short-circuit in the low-voltage line.
– Low-voltage and 230 V lines must not be installed together in a flush-mounted socket!

7.1 Requirements for the electrician

Warning

Electric voltage!
Install the device only if you have the necessary electrical engineering knowledge and experience.
- Incorrect installation endangers your life and that of the user of the electrical system.
- Incorrect installation can cause serious damage to property, e.g. due to fire.

The minimum necessary expert knowledge and requirements for the installation are as follows:
- Apply the "five safety rules" (DIN VDE 0105, EN 50110):
  1. Disconnect from power;
  2. Secure against being re-connected;
  3. Ensure there is no voltage;
  4. Connect to earth and short-circuit;
  5. Cover or barricade adjacent live parts.
- Use suitable personal protective clothing.
- Use only suitable tools and measuring devices.
- Check the supply network type (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective earthing, necessary additional measures, etc.).

7.2 General installation instructions

- Terminate all branches of the wiring system via a connected bus device (e.g., indoor station, outdoor station, system device).
- Do not install the system controller directly next to the bell transformer and other power supplies (to avoid interference).
- Do not install the wires of the system bus together with 230 V wires.
- Do not use common cables for the connecting wires of the door openers and wires of the system bus.
- Avoid bridges between different cable types.
- Use only two wires for the system bus in a four-core or multi-core cable.
- When looping, never install the incoming and outgoing bus inside the same cable.
- Never install the internal and external bus inside the same cable.

7.3 Mounting

The flush-mounted insert must only be installed in flush-mounted wall boxes according to DIN 49073-1, Part 1, or suitable surface-mounted housings.

Busch-iDock is mounted as shown below.

1. First the flush-mounted insert is connected.
2. Then, after the cover frame (separate) has been attached, the charging cradle is connected to the flush-mounted insert with the enclosed M3 screw.
3. Finally the cover plate (A) (separate) is attached to the charging cradle.

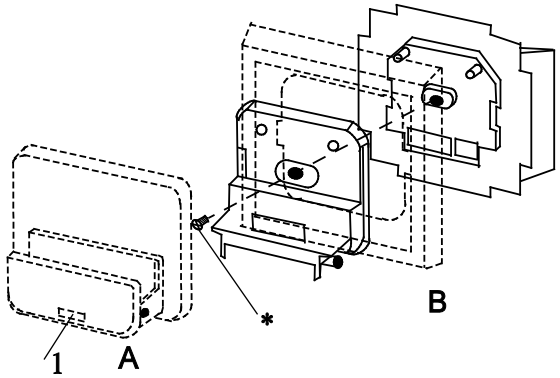

Fig. 2: 8218 U + 8254-xxx (A) + 2511-XXX / 1721-xxx (B)

No.	Function
*	Screw 1= LED+IR

7.4 Electrical connection

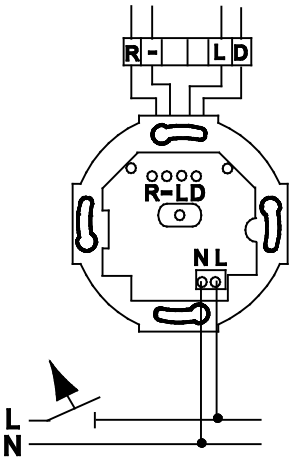

Fig. 3: Circuit diagram for i-Dock

No.	Assignment
R	Right channel
-	Dimensions
L	Left channel
D	Synchronisation with flush-mounted radio 8215 U / 8216 U; switchover to "iPod."
N	230 V AC ± 10 %
L	

7.4.1 Installation / connection possibilities

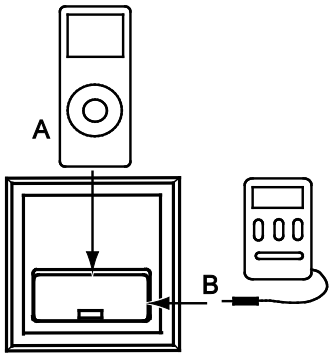

Fig. 4: Use with Dock Connector or MP3 player

No.	Function
A	Dock Connector (Apple interface)
B	MP3 player 3.5 mm external line in/out

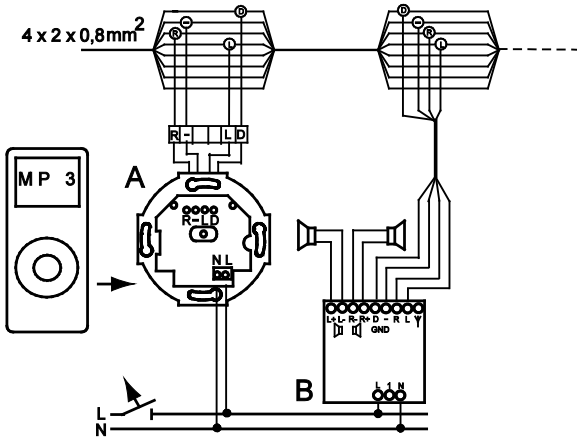

Fig. 5: Integration into Busch-AudioWorld® with the 8215 flush-mounted radio

No.	Function
A	8218 U
B	8215 U

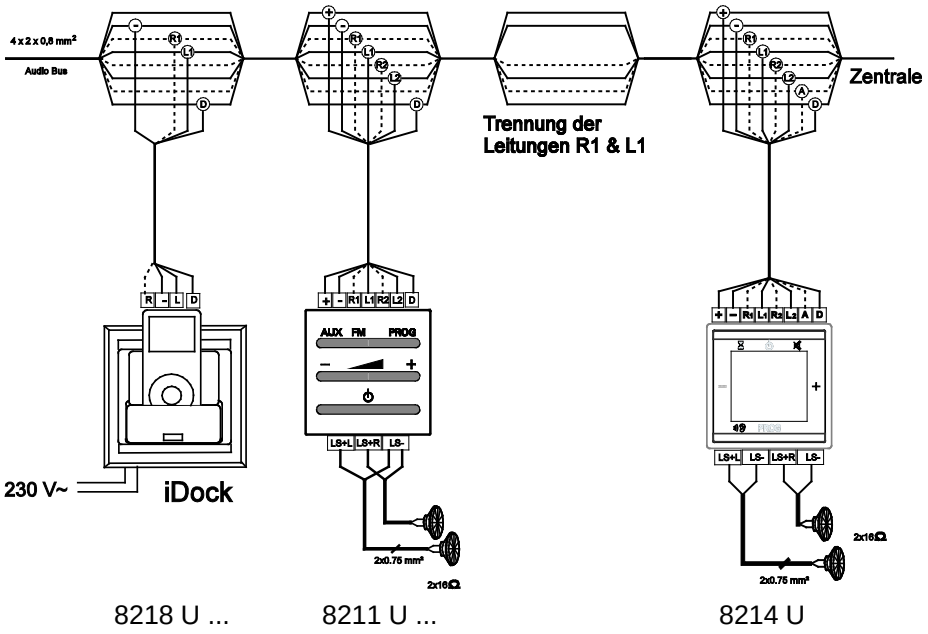

Fig. 6: Integration into Busch-AudioWorld®

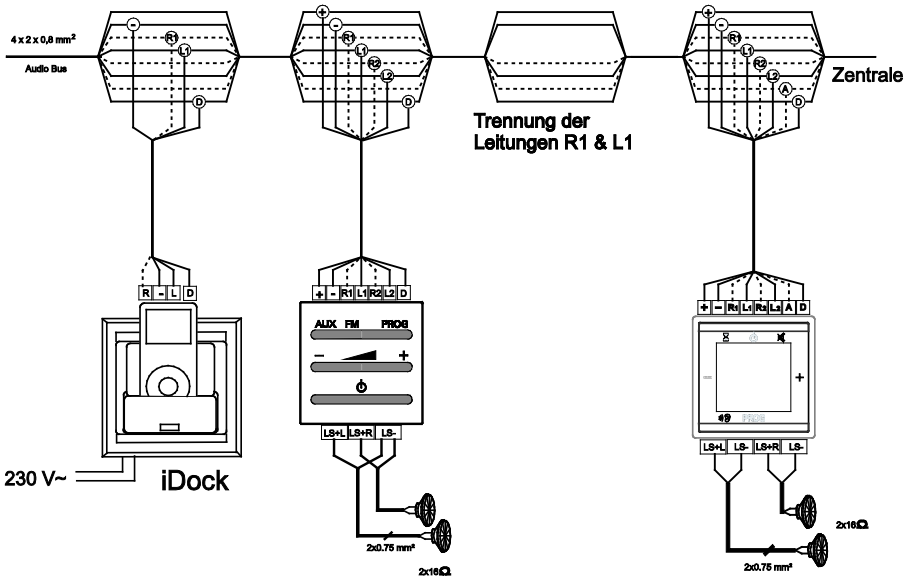

Fig. 7: System diagram for selective call

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1473-1-8319 | Rev. 01 | 17.12.2012

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